

Table 1

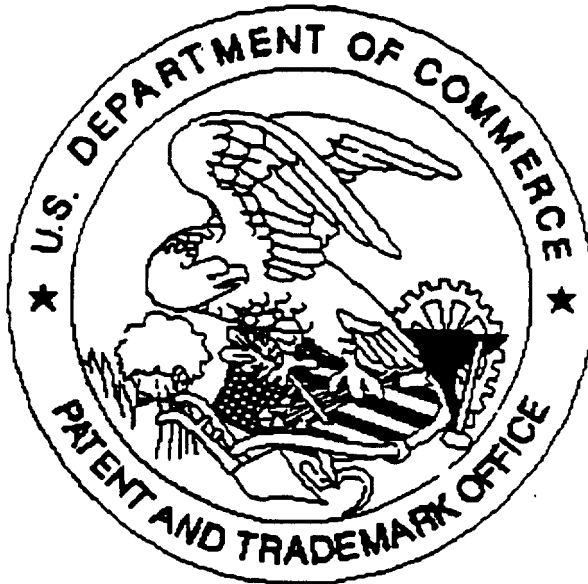
Auxiliary
face in
Example 11
exposed

[0059]

Table 2

	Unit	Example 25	Example 26	Comparative Example 21	Comparative Example 22	Comparative Example 23	Comparative Example 31
Adhesive (as metal element)	mol%	Sm: 4	La: 5.2	Y: 5 and Al: 3.5	Y: 0.5	Zr: 4.5 and Al: 8.2	Si: 20
Firing temperature	°C	1850	1850	1750	1900	1750	2000
Porosity	%	1	0	0	8	2	1
Density	g/cm ³	3.19	3.22	—	3.11	3.20	3.12
Orientation index between corrosion-resistive face and auxiliary face		2.5	2.7	1.7	1.2	1.1	1.3
Orientation index between two auxiliary faces		1.03	0.99	1.04	1.03	0.98	1.02
Coefficient of thermal expansion	ppm/°C	3.3	3.3	3.4	3.1	—	3
Thermal conductivity	W/mK	26	31	25	12	—	—
Four-point bending strength	MPa	700	730	750	620	560	600
Volume resistivity	Ωcm	—	—	—	1.0E±16	—	—
Content of element in Group Ia in sintered body	Wt ppm	2	3	40	10	9	about 600
Content of element in Group 4a-3b	Wt ppm	22	35	about 50000	43	about 30000	230
Content of F	Wt ppm	<1	<1	—	—	—	—
Content of Cl	Wt ppm	35	43	—	—	—	—
Weight reduction due to corrosion with NF ₃	μm/hr	5	4	11	22	20	20
NF ₃ corroded state	μm/hr	conspicuous	conspicuous	conspicuous	slight	slight	not condensed
NF ₃ sputtered state		good	good	conspicuous	good	conspicuous	**
Weight reduction due to corrosion with C12	μm/hr	0.8	1.2	23	18	30	30
C12 corroded state		conspicuous	conspicuous	conspicuous	slight	slight	not condensed

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